

In the Claims

Please cancel claims 2-28 without prejudice and enter new claims 29-44.

1. (Original) A digital image enhancer comprising:
a deinterlacing processor means receptive to an interlaced video stream, said deinterlacing processor means including a first deinterlacer and a second deinterlacer and providing a deinterlaced video stream; and
a video output processor means receptive to said deinterlaced video stream to provide a scaled, deinterlaced video stream.
2. (Canceled)
3. (Canceled)
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4. (Canceled)
5. (Canceled)
6. (Canceled)
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8. (Canceled)
9. (Canceled)
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24. (Canceled)

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26. (Canceled)

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27. (Canceled)
28. (Canceled)
29. (New) A portable DVD player comprising:
- a generally thin prismatic enclosure having a first major surface, a second major surface separated from said first major surface, and side surfaces connecting said first major surface to said second major surface, wherein at least a portion of said first major surface includes a video display, and wherein said enclosure includes a DVD entry port such that a DVD can be inserted;
- a video processor receptive to an interlaced video stream, from a DVD inserted into said enclosure, and providing a deinterlaced video stream comprising:
- a first deinterlacer operative to analyze progressive frames of said interlaced video stream in an attempt to determine an original source type and sequencing used for the interlaced video stream and further operative to convert said interlaced video stream into a deinterlaced video stream using a conversion process that is dependent upon said detection of said original source type and sequencing; and
- a second deinterlacer operative to reduce motion artifacts detected by a frequency analysis of said interlaced video stream; and
- an output processor receptive to said deinterlaced video stream and operative to provide a scaled, deinterlaced video stream on said video display.
30. (New) A portable DVD player as recited in claim 29 wherein said second deinterlacer is operative to detect diagonal features and to smooth said detected diagonal features.
31. (New) A portable DVD player as recited in claim 29 wherein said video processor processes said deinterlaced video stream in vertical slices.

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32. (New) A portable DVD player as recited in claim 29 wherein said output processor is operative to scale said deinterlaced video stream to modify a video display output format of a video output stream.

33. (New) A portable DVD player as recited in claim 29 wherein said output processor includes a data rate synchronizer between a first data rate of said deinterlaced video stream and a second data rate of a video output stream.

34. (New) A portable DVD player comprising:

a generally thin prismatic enclosure having a first major surface, a second major surface separated from said first major surface, and side surfaces connecting said first major surface to said second major surface, wherein at least a portion of said first major surface includes a video display, and wherein said enclosure includes a DVD entry port such that a DVD can be inserted;

a deinterlacing processor receptive to an interlaced video stream, from a DVD inserted into said enclosure, and operative to provide a deinterlaced video stream; and

a video output processor receptive to the output of said deinterlacing processor, wherein said deinterlacing processor processes said interlaced video stream in vertical slices to provide a scaled, deinterlaced video stream on said video display.

35. (New) A portable DVD player comprising:

a generally thin prismatic enclosure having a first major surface, a second major surface separated from said first major surface, and side surfaces connecting said first major surface to said second major surface, wherein at least a portion of said first major surface includes a video display, and wherein said enclosure includes a DVD entry port such that a DVD can be inserted;

a deinterlacing processor receptive to an interlaced video stream, from a DVD inserted into said enclosure, and operative to provide a deinterlaced video stream and is operative to analyze

progressive frames of said interlaced video stream in an attempt to determine an original source type and sequencing used for the interlaced video stream; and

a video output processor receptive to the output of said deinterlacing processor, wherein said deinterlacing processor processes said interlaced video stream in vertical slices to provide a scaled, deinterlaced video stream on said video display.

36. (New) A portable DVD player as recited in claim 35 wherein said deinterlacing processor is further operative to convert said interlaced video stream into a deinterlaced video stream using a conversion process that is dependent upon said detection of said original source type and sequencing.

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37. (New) A portable DVD player as recited in claim 35 wherein said deinterlacing processor is operative to reduce motion artifacts detected by a frequency analysis of said interlaced video stream.

38. (New) A portable DVD player as recited in claim 35 wherein said deinterlacing processor is operative to detect diagonal features and to smooth said detected diagonal features.

39. (New) A portable DVD player as recited in claim 35 wherein said video output processor is operative to scale said deinterlaced video stream to modify a video display output format of a video output stream.

40. (New) A portable DVD player as recited in claim 35 wherein said video output processor includes a data rate synchronizer between a first data rate of said deinterlaced video stream and a second data rate of a video output stream.

41. (New) A method for providing a video display comprising:

deinterlacing an interlaced video stream from a DVD with a video processor by at least one of a number of deinterlacing methods to produce a deinterlaced video stream, said video processor having a first deinterlacer and a second deinterlacer, said deinterlacing methods include at least one of an original source detection method, a diagonal feature detection method, and a motion artifact detection method; and

scaling said deinterlaced video stream for display on a video display.

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42. (New) A method for providing a video display as recited in claim 41 wherein said deinterlacing methods include processing said interlaced video stream in vertical slices.

43. (New) A method for providing a video display as recited in claim 41 wherein said scaling includes a horizontal scaling of the deinterlaced video stream.

44. (New) A method for providing a video display as recited in claim 41 wherein said scaling includes a data rate synchronizer between a first data rate of said deinterlaced video stream and a second data rate of a video output stream.